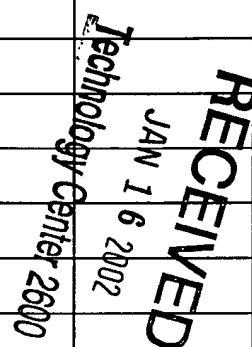
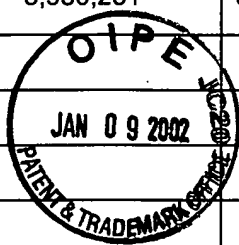


<b>FORM PTO-1449</b> (REV. 6-89)	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	Attorney's Docket No. <b>3982 US</b>	Serial No. <b>09/474,659</b>
<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)		Applicant <b>Ting K. Yee and Peter Chang</b>	
		Filing Date <b>December 29, 1999</b>	Group Art Unit <b>2733</b>

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
DSK	5,930,231	07/27/99	Miller et al.	370	210	

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No

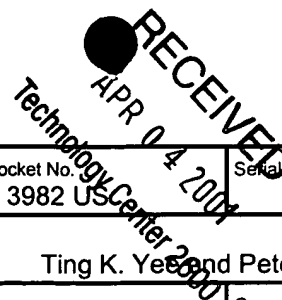
**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER <i>[Signature]</i>	DATE CONSIDERED <b>SEPTEMBER 27, 2002</b>
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**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
DSK	A	4,061,577	12/6/77	Bell	250	199	8/18/76
DSK	B	4,701,904	10/20/87	Darcie	370	3	
DSK	C	4,953,156	8/28/90	Olshansky et al.	370	3	9/8/88
DSK	D	5,351,148	9/27/94	Maeda et al.	359	124	5/26/93
DSK	E	5,387,927	2/7/95	Look et al.	348	6	9/17/93
DSK	F	5,430,568	06/04/95	Little et al.	359	124	
DSK	G	5,559,561	9/24/96	Wei	348	470	7/15/94
DSK	H	5,576,874	11/19/96	Czerwec et al.	359	123	
DSK	I	5,596,436	1/21/97	Sargis et al.	359	132	7/14/95
DSK	J	5,680,238	10/21/97	Masuda	359	132	11/9/95

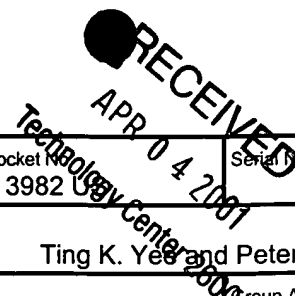
**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
DSK	K	EP 0 717 521 A	06/19/96	EP				No
DSK	L	EP 0 756 393 A1	29.01.97	EP				No

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

DSK	M	Business Wire, "Harmonic Lightwaves Announces Availability of First MCNS-Compliant QAM Modulator; TRANsend QAM is a Vital Component for Delivering Digital Services", November 18, 1997
DSK	N	Dai, H., C. Lin, M. Ramachandran, "Hybrid AM/QAM Video Trunking Lightwave Systems With Cascaded EDFAs", Conf. Proc. LEOS, 97 Annual Meeting, IEEE Lasers & Electro Optic Society, 1997, Vol. 1, pp. 319-320
DSK	O	Douverne, E., M. Ottka, K. Ruthemann, K. Siegel, "Ein 64-QAM-Modem für SDH-Richtfunkgeräte mit integriertem Kreuzpolarisationsentkoppler", Vol. 40, No. 11, 1 March 1994, pages 89-100

EXAMINER L. J. [Signature] DATE CONSIDERED SEPTEMBER 27, 2002EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered.  
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		Applicant Ting K. Yee and Peter Chang	
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**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

DSK	P	Fuse, M., Y. Kudo, K. Maeda, "Development of 128 Optical Distribution System of 150 chs AM/QAM Hybrid Signals", <u>Electronics and Communications in Japan</u> , November 1996, Volume 79, Issue 11, Part 1, pp. 65-77
DSK	Q	Green, P., "Fiber Optic Networks", 1993, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, p. 331, line 4 - line 7, figure 9-1
DSK	R	Hiramatsu, A. et al., "Hypermedia Photonic Information Network Based on WDM-SCM Broadcast and Select Switching," Conference Proceedings, Leos '96 9 <sup>th</sup> Annual Meeting, IEEE Lasers and Electro-Optics Society 1996 Annual Meeting (Cat. No. 96CH35895), Boston, MA, November 18-19, 1996, pp. 312-313
DSK	S	Ho, K., H. Dai, C. Lin, "Hybrid WDM Digital Trunking System for both HFC and FTTC Access Networks", Digest IEEE/LEOS 1996 Summer Topical Meetings (Cat. No. 96 <sup>th</sup> 8164), NY, NY, pp. 37-38
DSK	T	Kanno, N., K. Ito, "Fiber Optic Subcarrier Multiplexing Transport for Broadband Subscriber Distribution Network", <u>IEEE Intl. Conference on Communications Boston ICC/89 World Prosperity Through Communications</u> , June 11-14, 1989, Boston, MA, Volume 2, pp. 996-1003
DSK	U	Kavehrad, M., E. Savov, "Fiber-Optic Transmission of Microwave 64-QAM Signals", <u>IEEE Journal on Selected Areas in Communications</u> , Vol. 8, No. 7, September 1990, pp. 1320-1326
DSK	V	LeBer, J., M. LeLigne, "Digital Transmission on Electric Subcarriers in Optical Fiber Videocommunication Systems", <u>Optics Communications</u> , October 15, 1987, Volume 64, No. 2, pp. 120-126
DSK	W	Li, J., K. Yano, "Development of AM/QAM Hybrid Optical SCM Transmission System", <u>Proc Intl Conf. On Communication Technology ICCT '96</u> , May 5-7, 1996, Beijing, China, Volume 1, pp. 575-577
DSK	X	Lu, X., G.E. Bodeep, T.E. Darcie, "Broad-Band AM-VSB/64 QAM Cable TV System Over Hybrid Fiber/Coax Network," <u>IEEE Photonics Technology Letters</u> , Vol. 7, No. 4, April 1995, pp. 330-332
DSK	Y	Nakamura, Y., H. Ohtsuka, S. Aikawa, H. Takanashi, "Advanced Techniques for Super Multi-Carrier Digital Microwave Radio With Trellis-Coded 256 QAM Modulation", NTT Radio Communication Systems Laboratories), pp. 389-394
DSK	Z	Nishikido, J. et al., "Multiwavelength Securely-Authenticated Broadcast Network" 11 <sup>th</sup> International Conference on Integrated Optics and Optical Fibre Communications, 23 <sup>rd</sup> European Conference on Optical Communications IOOC-ECOC 97 (Conf. Publ. No. 448), Sept. 22, 1997, pp. 17-20

EXAMINER Xiaohu Kan DATE CONSIDERED SEPTEMBER 27, 2002

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	Applicant Ting K. Yee and Peter Chang		
	Filing Date December 29, 1999	Group Art Unit 2733	

### U.S. PATENT DOCUMENTS

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### FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DSK	AA	Ohtsuka, H., O. Kagami, S. Aikawa, H. Takanashi, "256-QAM Subcarrier Transmission for Broadband Distribution Networks", NTT Radio Communications Systems Laboratories, GlobeCom '91, pp. 1817-1822
DSK	BB	Park, J., A. Elrefaie, K. Lau, "1550-nm Transmission of Digitally Modulated 28-GHz Subcarriers Over 77 km of Nondispersion Shifted Fiber", <u>IEEE Photonics Technology Letters</u> , February 1997, Volume 9, Issue 2, pp. 256-258
DSK	CC	Ryan, J., "WDM: North American Deployment Trends," <u>IEEE Communications Magazine</u> , February 1998, pp. 40-44.
DSK	DD	Schlump, Dieter et al.: "Electronic equalization of PMD and chromatic dispersion induced distortion after 100 km standard fibre at 10 Gbit/s" PROCEEDINGS OF THE EUROPEAN CONFERENCE ON OPTICAL COMMUNICATION, 20 September 1998, pp. 535-536.
DSK	EE	Swaminathan, V., N. Froberg, L. Upadhyayula, "The end-to-end bit error performance of 64-quadrature amplitude modulated signals in a hybrid AM-vestigial sideband/QAM fiber-optic video transmission system", <u>Proceedings of SPIE-International Society for Optical Engineering</u> , Volume 2917, pp. 274-282
DSK	FF	Tai, C., Pi-Yang Chiang, W. Way, "Eight-Way, 70-km Transmission of 33-Channel 64-QAM Signals Utilizing a 1.3- $\mu$ m External Modulation System and Semiconductor Optical Amplifier", <u>IEEE Photonics Technology Letters</u> , Vol. 8, No. 9, September 1996, pp. 1244-1248
DSK	GG	Tang, D., "Multi-Gigabit Fiber-Optic Video Distribution Network Using BPSK Microwave Subcarriers", <u>IEEE 1989 MTT-S Intl. Microwave Symp Digest</u> , June 13-15, 1989, Long Beach, CA, Volume 2, pp. 697-701
DSK	HH	Wilson, G, "Capacity of QAM SCM systems utilising optically linearised Mach-Zehnder modulator as transmitter", <u>Electronic Letters</u> , Vol. 34, No. 25, December 10, 1998, pp. 2372-2374

EXAMINER <i>David P. K...</i>	DATE CONSIDERED SEPTEMBER 27, 2002
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